4201 BIRCHWOOD CRESCENT
BURNABY B.C. V5G 4E6
CANADA.
AUGUST 12 1980

ARCADIAN
ROBERT FABRIS
8626 MORRIE DRIVE
SAN JOSE, CA 95127

Dear Sir;

enclosed please find source listings for three simple programmes. Two are converted from Digitals "101 BASIC COMPUTER GAMES" and one is an enhancement of Bally's Lunar Lander. These programmes were done shortly after I purchased my Bally and before I subscribed to your news letter. They are rather simple and can be cleaned-up and improved, however I thought I may as well send them to you anyway.

Incidently I did not receive your "VOL 2 NO 8" after I subscribed. I received VOL 2 NOS 1-7 in one mailing and just received NO 9, is it possible to receive this?

Your news letter is very good and I am amazed at the amount of research, both hardware and software, that is being performed by Bally users.

Sincerely
STAN W HEWZ

ORGINIAL BY DAVID AHL
DIGITAL EQUIPMENT

NICOMA (APRIL 1980)
-095 to END (CQ12 SIDE 1)

```
 8 BC = 22 ; FC = 0 ; NT = 0
 9 CLEAR ; PRINT ; PRINT ; PRINT
10 PRINT " ¥¥ BOOMERANG PUZZLE FROM"
20 PRINT " ¥¥¥¥¥ARITHMETICA OF"
30 PRINT " ¥¥ NICOMACHUS - - A.D. 90! "
31 FOR L = 1 TO 1000
32 NEXT L
33 CLEAR
34 PRINT " PLEASE THINK OF A NUMBER "
35 PRINT " ¥¥¥¥ BETWEEN 1 AND 100
40 PRINT ; PRINT " YOUR NUMBER DIVIDED BY 3 ¥¥ HAS A
   REMAINDER OF ? : "
45 INPUT A
50 PRINT ; PRINT " YOUR NUMBER DIVIDED BY 5 ¥¥ HAS A
   REMAINDER OF ? : "
55 INPUT B
60 PRINT ; PRINT " YOUR NUMBER DIVIDED BY 7 ¥¥ HAS A
   REMAINDER OF ? : "
65 INPUT C
70 CLEAR ; PRINT ; PRINT ; PRINT
80 PRINT " LET ME THINK A MOMENT ..... "
90 FOR L = 1 TO 1500 ; NEXT L
100 D = 70 x A + 21 x B + 15 x C
110 IF D < 105 GO TO 140
110 IF D = 105 GOTO 140
120 D = D - 105
130 GOTO 110
140 PRINT ; PRINT
150 PRINT " YOUR NUMBER WAS " D
155 PRINT " ¥¥¥¥¥¥¥¥¥¥ RIGHT? "
160 INPUT E
```

```
165 IF E = 1 GOTO 220
170 IF E = 4 GOTO 240
180 IF E # 1 IF E # 4 GOTO 190
190 PRINT "HH EH? HH I DON'T UNDERSTAND"
195 PRINT "HH HH TRY 'YES' OR 'NO'"
200 GOTO 150
220 PRINT "HHHHHHOW ABOUT THAT!!"
230 GOTO 250
240 PRINT "HH I FEEL YOUR ARITHMETIC HHHHHHHHHH IS
    IN ERROR!"
250 PRINT ; PRINT
260 PRINT "HHHH LETS TRY ANOTHER"
270 GOTO 33
```

~ END ~

ORGINIAL BY JOHN KEMENY
DARTMOUTH COLLEGE

BATNUM

(APRIL 1980)
- 010 to 085 (C12 S10E 1)

1. .to } lead-in
2. .5 }
8.

```
  9 PRINT SZ
100 CLEAR
102 PRINT ; PRINT ; PRINT
103 PRINT ; PRINT "␣␣␣␣␣␣␣␣␣␣BATNUM"
104 PRINT ; PRINT "␣␣␣␣␣␣␣␣APRIL 1980"
105 FOR D = 1 TO 1500
106 NEXT D
204 BC = 144 ; FC = 4
205 CLEAR
210 GOTO 330
220 FOR I = 1 TO 10
225 NT = 3
230 PRINT
240 NEXT I
330 PRINT "ENTER PILE SIZE:"
340 INPUT N
350 IF N # 0 GOTO 380
360 GOTO 330
380 IF N < 1 GOTO 220
390 PRINT "ENTER WIN OPTION:"
391 PRINT "␣␣␣␣ 1 TO TAKE LAST:"
392 PRINT "␣␣␣␣ 2 TO AVOID LAST:"
400 INPUT M
410 IF M = 1 GOTO 430
420 IF M # 2 GOTO 390
430 IF M = 0 GOTO 390
430 PRINT "ENTER MIN AND MAX:"
440 INPUT A
```

```
441 INPUT B
450 IF A > B  GOTO  430
460 IF A < 1  GOTO  430
490 PRINT "ENTER START OPTION :"
491 PRINT "#### 1  COMPUTER FIRST :"
492 PRINT "#### 2  YOU FIRST :"
500 INPUT S
505 N = 0
510 IF S = 1  GOTO  530
520 IF S # 2  GOTO  490
530 C = A + B
540 IF S = 2  GOTO  570
550 GOSUB  600
560 IF W = 1  GOTO  220
570 GOSUB  810
580 IF W = 1  GOTO  220
590 GOTO  550
600 Q = N
610 IF M = 1  GOTO  630
620 Q = Q - 1
630 IF M = 1  GOTO  680
640 IF N > A  GOTO  720
650 W = 1
~~660 PRINT "COMPUTER TAKES" N~~
660 PRINT "COMPUTER TAKES", N, "AND LOSES"
670 RETURN
680 IF N > B  GOTO  720
690 W = 1
700 PRINT "COMPUTER TAKES", N, "AND WINS!"
710 RETURN
720 P = Q - C * (Q ÷ C)
730 IF P > A  GOTO  750
731 IF P = A  GOTO  750
740 P = A
```

BATNUM (CONTINUED)

```
750 IF P<B GOTO 770
751 IF P=B GOTO 770
760 P=B
770 N=N-P
780 PRINT "COMPUTER TAKES", P
790 PRINT "AND LEAVES", N
800 W=0
810 RETURN
820 PRINT "YOUR MOVE:"
830 INPUT P
840 IF P#0 GOTO 880
850 PRINT "I TOLD YOU NOT TO USE ZERO COMPUTER
    WINS BY FORFEIT!"
860 W=1
870 RETURN
880 IF P>A GOTO 910
881 IF P=A GOTO 910
890 IF P=N GOTO 960
900 GOTO 920
910 IF P<B GOTO 940
911 IF P=B GOTO 940
920 PRINT "ILLEGAL MOVE, REENTER IT"
930 GOTO 820
940 N=N-P
950 IF N#0 GOTO 1030
960 IF M=1 GOTO 1000
970 PRINT "TOUGH LUCK, YOU LOSE!"
980 W=1
990 RETURN
1000 PRINT "CONGRATULATIONS, YOU WIN!"
1010 W=1
1020 RETURN
```

```
1030 IF  N>0 GOTO  1060
1031 IF  N=0 GOTO  1060
1040 N=N+P
1050 GOTO  920
1060 W=0
1070 RETURN
```

~ END ~

LUNAR LANDER TWO

MAY 1980

(C12 SIDE TWO 010 to 065)
(1 of 3)

```
5.
6.
7.
8.
9.
10 CLEAR ; NT = 0
20 PRINT SZ
30 FOR A = 1 TO 500
40 NEXT A
50 CLEAR
60 PRINT ; PRINT ; PRINT ; PRINT ; PRINT "¥¥¥¥¥ LUNAR LANDER TWO "
70 PRINT "¥¥¥¥¥¥¥¥ MAY 1980 "
80 FOR A = 1 TO 1250
90 NEXT A
100 CLEAR
200 T = 0 ; M = 0
210 & (23) = 255
220 BC = 0 ; FC = 126
240 LINE -8,43,4
250 LINE 78,43,1
260 LINE 78,23,1
270 LINE -8,23,1
280 LINE -8,43,1
290 CX = 0 ; CY = 38
295 PRINT "FUEL * ATT * SPD"
300 FOR A = -80 TO 80                    position to start horizon
310 T = T + RND (4) - 3
320 IF T < 0 T = 0
330 LINE A,-44,0                         hills on horizon
340 LINE A,T-44,1
350 NEXT A
360 FOR A = 1 TO 51
370 BOX RND (140) - 80, RND (88) - 44, 1, 1, 1   plot star effect
380 NEXT A
420 G = 0
430 F = 30
440 X = RND (80) - 80
```

```
450 Y=43
460 BOX X,Y,3,3,3
461 BOX X,Y+2,1,1,3
465 IF U BOX X,Y-2,1,3,3
500 .MORE
504 BOX X,Y,3,3,3
505 BOX X,Y+2,1,1,3
506 IF U BOX X,Y-2,1,3,3
508 IF F>0 U=TR(1)          if fuel remains trigger 1 active
509 IF F<1 U=0              if fuel gone trigger in-active
510 IF U &(21)=255          if trigger on- rocket sound
512 IF U=0 &(21)=0          if trigger off- no rocket sound
518 G=G+8-20*U
520 Y=Y-G÷25
525 IF Y<-42 GOTO 600
527 M=M+5*(1)
530 X=X+M
532 IF F<1 U=0; GOTO 1040   out of fuel crash routine
533 IF U=1 F=F-1
535 BOX X,Y,3,3,3
540 BOX X,Y+2,1,1,3
550 IF U BOX X,Y-2,1,3,3    rocket blast display
560 CX=0; CY=30
570 PRINT #4,F,#4,Y+42,#4-G÷10
580 GOTO 500
590 .LAND
600 Y=-42; IF Y=-42 IF -G÷10<-3 GOTO 1140
615 CX=0
616 CY=30
617 PRINT #4,F,#4,Y+42,#4,-G÷10
620 &(21)=0                 rocket landed turn off engine
630 BOX X,Y,3,3,3
640 BOX X,Y+2,1,1,3
650 IF U BOX X,Y-2,1,3,3
1000 GOTO 1220
1005 CY=-32
1006 PRINT "##" 26 SPACES ##)
```

```
1007  CY=-32;CY=-32                    } 1005 to 1008 performs a
1008  PRINT"ENTER 1 TO PLAY AGAIN"     } message strobe effect
1010  IF &(23)=8 GOTO 100
1020  IF &(23)#8 GOTO 1005
1040  CLEAR
1050  PRINT;PRINT
1060  PRINT"###ALERT:## OUT OF FUEL!"
1061  NT=3                             }
1062  FOR A=1 TO 100                   }
1063  MU=25                            } warning klaxton sound
1064  MU=75                            }
1065  NEXT A                           }
1066  NT=0;CLEAR
1067  PRINT;PRINT;PRINT
1070  PRINT;PRINT;PRINT
1080  PRINT"#####YOU HAVE JUST BEEN"
1090  PRINT"##CONVERTED TO A BLOB OF"
1100  PRINT"###QUIVERING PROTOPLASM"
1110  FOR A=1 TO 1250
1120  NEXT A
1130  PRINT;PRINT;PRINT;GOTO 1005
1140  PRINT;PRINT;PRINT;&(21)=0
1150  PRINT"#####CRASH !!!!!!!!"
1160  B=RND(99)
1170  PRINT"YOUR IMPACT CREATED A"
1180  PRINT"CRATER",B,"METRES DEEP"
1190  FOR A=1 TO 1250
1200  NEXT A
1210  PRINT;PRINT;PRINT;GOTO 1005
1220  PRINT;PRINT;PRINT
1230  PRINT"#########LANDER"
1240  FOR W=55 TO 65;MU=W
1250  NEXT W;NEXT Z;NT=0
1260  PRINT;PRINT;PRINT
1270  GOTO 1005
1280  .END
```